

APPENDIX 5B

Correlations between Hg and Age

Data are first analyzed using all fish, then analyzed by species, then park, and then lake. Data are provided for the model that had the strongest statistical significance. The categories in bold are significant at $P < 0.05$.

Analysis	F	d.f.	R ^{squared}	P	Best Fit Model
All fish	58.10	2, 162	0.42	<0.0001	2nd order polynomial (parabolic)
Brook trout	129.38	1, 98	0.57	<0.0001	Linear
Lake trout	0.39	1, 28	-0.01	0.54	Linear
Cutthroat trout	7.84	1, 23	0.25	0.01	Double reciprocal
Rainbow trout	114.89	1, 8	0.93	<0.0001	Double reciprocal
Sequoia	38.31	1, 18	0.68	<0.0001	Double reciprocal
Pear	42.95	1, 8	0.84	0.0002	S-curve
Emerald	9.11	1, 8	0.63	0.02	Double reciprocal
Rocky Mountain	82.08	1, 18	0.82	<0.0001	Double reciprocal
Mills	114.89	1, 8	0.93	<0.0001	Double reciprocal
Lone Pine	31.14	1, 8	0.80	0.0005	Squared X
Gates of the Arctic					
Matcharak	1.44	1, 8	0.15	0.26	Reciprocal Y; Squared X
Noatak					
Burial	5.55	1, 8	-0.41	0.05	Reciprocal Y; Squared X
Denali					
Wonder	0.98	1, 8	0.11	0.35	Double squared
Mount Rainier	37.33	1, 28	0.57	<0.0001	Square root Y; Squared X
LP19	38.18	1, 13	0.75	<0.0001	Log Y; Square-root X
Golden	2.68	1, 13	0.17	0.12	Double reciprocal
Glacier	7.84	1, 23	0.25	0.01	Double reciprocal
Oldman	4.04	1, 8	0.33	0.08	Double squared
Snyder	11.07	1, 13	0.46	0.005	Double reciprocal
Olympic	106.82	1, 38	0.74	<0.0001	Double squared
PJ2003	5.37	1, 8	0.40	0.05	Double reciprocal
PJ2005	44.74	1, 13	0.77	<0.0001	Double squared
Hoh	44.96	1, 13	0.78	<0.0001	Squared X